MON172CL20 17-inch Color LCD Flat Panel Display Monitor

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Invented for life

- Y/C (S-video) and loop-through video and audio inputs
- High resolution (500 TVL or SXGA, 1280 x 1024)
- High brightness (400 cd/m²)
- High contrast ratio (500:1)
- 3-D comb filter for high quality video

The MON172CL20 is a high resolution, high performance liquid crystal display (LCD) video display monitor. Available in an ergonomic, aesthetically pleasing design, this state-of-the-art monitor includes a 43 cm (17 in.) color thin film transistor (TFT) active matrix LCD panel with 1280 by 1024 pixels. Designed for the CCTV security marketplace, the MON172CL20 monitor includes two looping composite video inputs, two looping audio inputs, and one looping Y/C input.

Functions

Additionally, this model includes an analog VGA / digital DVI input to accommodate the increasing use of PC's and digital video devices in security applications. To enhance the multi-input capability, a "picture-in-picture" function has been added, allowing any of the composite video or Y/C inputs to be inserted into each other, or into the VGA/DVI input display when operating in the analog VGA/DVI mode.
Adjustment of standard monitor display parameters is made user-friendly via on-screen menus (available in several languages), and front panel controls. For additional security, the MON172CL20 includes a front panel lockout feature that disables the front panel control buttons.
Using long-life fluorescent backlights, the brightness level is maintained over time, because the LCD monitor design avoids the brightness degradation experienced with aging CRT-type monitors. It also provides a sharp display, free of the annoying flicker prevalent in CRT monitors, allowing longer use of your LCD monitor with little or no eyestrain. The versatile design allows it to automatically accept NTSC and PAL signal formats, and power supply voltages from 90 to 264 VAC.
Its compact styling, including an LCD panel depth of 84 mm (3 in.), makes the MON172CL20 the color monitor of choice for large screen, space limited applications. With its wide range viewing angle, 140° in horizontal and 130° in the vertical direction, the unit can be properly viewed whether installed on a desktop, wall mounted, or rack mounted in a standard 48 cm (19 in.) EIA rack.

Certifications and Approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC standards

Technical Specifications

Electrical

Rated Voltage	120/230 VAC, 50/60 Hz
Voltage Range	90 to 264
Power at Rated Voltage	51 W (max.)
Sync Format	PAL/NTSC
LCD Panel	TFT LCD
Screen Size (H x V)	337.9 x 270.3 mm (13.3 x 10.6 in.)
Viewable Picture Area	17 in. (43 cm) measured diagonally
Pixel Pitch (H x V)	0.264 x 0.264 mm (0.01 x 0.01 in.)
Resolution	1280 x 1024 pixels; 500 TV lines typical
Aspect Ratio	5:4
Display Colors	6-bit interface; 16.2 million colors
Response Time	8 ms
Backlight	Four (4) cold cathode fluorescent tubes, rated life 50,000 hours, at 50% brightness

Optical Characteristics

Luminance	400 cd/m^2, hard coating (2H)
Contrast Ratio (CR)	500:1
Viewing Angle	140° horizontal, 130° vertical @ CR ≥ 10

Video Input

Composite Video (CVBS)	1.0 Vp-p (0.5–1.5 Vp-p), automatic switching from 75 Ohm unbalanced termination to Hi-Z with passive loop-through operation
Y/C (S-video)	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75 Ohm termination
Picture-in-Picture	Video 1, Video 2, S-video

VGA / DVI Input

Analog RGB	0.7 Vp-p (0.5–1 Vrms)
Picture-in-Picture	Video 1, Video 2, S-video (VGA only)
VGA / DVI Timing Modes	640 x 480, 60/72/75 Hz 800 x 600, 60/72/75 Hz 1024 x 768, 60/70/75 Hz 1280 x 1024, 60/75 Hz
Audio Input	1.0 V line level
Audio Output	Loop-through line level Speaker: two (2), 1 W

Controls

Front Panel	Push-buttons
Input	Selects Video 1, Video 2, S-video, DVI, or VGA input
Menu	Selects on-screen display (OSD) Up cursor, brightness select Down cursor, contrast select Adjustment decrease Adjustment increase
Power	On/Off
Front Panel Lockout	Multiple push-button combination

On-screen Display

Video	Tint (NTSC only), Color, Sharpness, Default, Language, Channel Title, Underscan, 3-D Comb Filter, PIP Menu, Power-on Options, Volume, Input Enable/Disable, Exit
VGA / DVI	Auto Set, Display Setting, Color Temperature, Language, Volume, Default, PIP Menu, Power-on Options, Input Enable/Disable, Information, Exit

Indicators

LED	Power On (green), Standby (amber), Sleep Mode (flashing amber)
On-Screen	“No Signal” (flashing)

Connectors

Video 1	Composite video: two (2) BNC (1 in, 1 out)
Video 2	Composite video: two (2) BNC (1 in, 1 out)
Y/C (S-video)	Two (2) mini-DIN, 4-pin (1 in, 1 out)
Audio	PC: one (1) 1/8 in. mini phono plug Aux: two (2) (left/right) RCA and looping output
DVI-I	One (1) VGA to DVI cable included One (1) DVI to DVI cable included
Power Cord	Two (2), 3-wire with a grounded plug, 1.8 m (6 ft) long. One (1) with a European/Continental plug type and one (1) with a U.S. plug type

Mechanical

Cabinet	Material: ABS94V0 plastic Finish: Charcoal Wall mounting compatible with standard bracket, 100 mm centers, M4 thread

Dimensions	
Monitor with Base (W x H x D)	440 x 428 x 196 mm (17.3 x 16.9 x 7.7 in.)
Monitor Only (W x H x D)	440 x 375 x 84 mm (17.3 x 14.8 x 3.3 in.)
Weight	Monitor with base: 7 kg (15.42 lb) Monitor only: 5.4 kg (11.9 lb)

Environmental	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	–20°C to 60°C (–4°F to 140°F)
Humidity	10% to 95%, non-condensing

Accessories	
MON171RK Rack Mount Kit	For mounting one MON172CL20 monitor in an EIA standard 48 cm (19 in.) rack 1 unit wide by 9 rack units high

Ordering Information

MON172CL20 17-inch Color LCD Flat Panel Display Monitor
43 cm (17 in.), PAL/NTSC, 500 TVL high resolution with audio, PIP, CVBS, VGA, 120/230 VAC, 50/60 Hz
Order number **MON172CL20**

Order number **UMP-12V5B0-90**

Accessories

UMM-LW-20B Fixed Wall Mount
Fixed wall mount for flat panel LCD monitors, black
Order number **UMM-LW-20B**

UMM-LW-30B Swivel/Tilt Wall Mount
Swivel/Tilt wall mount for flat panel LCD monitors, black
Order number **UMM-LW-30B**

Represented by:

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:
Bosch (Shanghai) Security Systems Ltd.
201 Building, No. 333 Fuquan Road North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:
Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
al.securitysystems@bosch.com
www.boschsecurity.com

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2334975627 | en, V1, 11. Jun 2012